

Attorney Docket No.: 320727.51001

Customer No. 27160

U.S. Patent Application No.

10/697,870

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Lola M. REID et al.

Group Art Unit: 1744

Application No.: 10/697,870

Examiner: Not Yet Assigned

Filed: October 31, 2003

Confirmation No.: 9017

For:

TEXTILES FOR USE IN

BIOREACTORS FOR EXPANSION AND MAINTENANCE OF CELLS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 July 21, 2005

## INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. §1.56 and in accordance with the practice under 37 C.F.R. §§1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Forms PTO/SB/08A and PTO/SB/08B. In accordance with current practice, copies of any listed U.S. Patent documents are not being provided.

#### FORMAL MATTERS

In accordance with 37 C.F.R. § 1.97(b)(3), since a first Official Action on the merits of the subject application has not yet been issued, neither a certificate, petition nor payment of a fee is believed to be required for this Information Disclosure Statement. However, the Commissioner is hereby authorized to charge any fee which may be required in connection with this paper to Deposit Account No. 50-1710.



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# **CONCLUSION**

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Forms PTO/SB/08A and PTO/SB/08B be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington, D.C. office by telephone at (202) 625-3500. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

Gilberto M. Villacorta, Ph.D.

Registration No. 34,038

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Patent Administrator KATTEN MUCHIN ROSENMAN, LLP 525 West Monroe Street Chicago, Illinois 60661-3963 (202) 625-3500

PTO/SB/08A (08-03)

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Under 1449/PTO

Sheet

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/697,870	·		
Filing Date	October 31, 2003			
First Named Inventor	REID, Lola, M.			
Art Unit	1744			
Examiner Name	Not Yet Assigned			
Attorney Docket Number	320727 51001			

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		<sup>US-</sup> 5,622,857	04/22/1997	Goffe	
		<sup>US-</sup> 5.183.566	02/02/1993	Darnell et al	
		<sup>US-</sup> 4,816,028	03/28/1989	Kapadia et al	
		<sup>US-</sup> 5,176,708	01/05/1993	Frey et al	
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		FOREIG	N PATENT DOCU	MENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	Γ
		Country Code <sup>3 *</sup> Number <sup>4 *</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY		Or Relevant Figures Appear	T <sub>6</sub>

Examiner	*	Date	
Signature	•	Considered	

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Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND

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i yang	e 101 101111 1445/1 1 C			Application Number	10/697,870
INFO	ORMATION	DIS	CLOSURE	Filing Date	October 31, 2003
STA	TEMENT E	BY A	PPLICANT	First Named Inventor	REID, Lola M.
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Sheet	2	of	4	Attorney Docket Number	320727.51001

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Busuttil, R. W. et al. Ann Surg 1987, 206, 387	
		Abe, T. et al., Therapeutic Apheresis 2000, 4:26	
		Xu, A.S.L. et al., 2000 in Lineage Biology and Liver, Lanza, R.P., Langer R., and Vacanti, J. (Ed.), Academic Press, San Diego, pp. 559-597	
		Brill, S. et al., Differentiation 1995, 59, 95	
,		Sigal S.H. et al., Differentiation 1995, 59, 35	
0		Kasai et al. Artif Organs 1994, 18, 348	
		Macdonald, J.M. et al. NMR Biomed 1998, 11, 1	
		Glacken M.W. et al. Ann NY Acad Sci 1983, 413, 355	
·		Catapano, G. et al. Int J Art Organs 1996, 19, 61	
		Macdonald, J.M. et al., 1999, in Cell Encapsulation Technology and Therapeutics, Kuhtreiber, W., Lanza, R.P. and Chick, W.L. (Eds.) Birkhauser Boston, Cambridge, pp. 252-286. In bioartificial livers with serial oxygenation aerated with air, oxygen becomes axially limiting in perfusion media by 25 mm	

Examiner	Date	
Signature	Considered	

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Complete if Known Substitute for form 1449/PTO **Application Number** 10/697,870 INFORMATION DISCLOSURE **Filing Date** October 31, 2003 STATEMENT BY APPLICANT **First Named Inventor** REID, Lola M. Art Unit 1744 (Use as many sheets as necessary) **Examiner Name** Not Yet Assigned Attorney Docket Number Sheet 3 4 320727.51001 of

	•	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Smith, M.D. et al Int J Artif Organs 1996, 19, 36	
		Callies, R. et al., Bio/Technology 1994 12:75	
		Cremmer, T. et al. J Cell Physiol 1981, 106, 99	
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		Mufti N.A. and Shuler, M.L., Biotechnol. Prog., 1995, 11, 659	
		Sato, Y. et al., Surg. Today, 1997, 27, 518	
		Enat, R. et al. Proc Natl Acad Sci USA, 1984, 81, 1411	
		Bissell, D. M. Scan J Gasterenterol-Suppl 1988, 151,1	
		Brill, S. et al. Proc Soc Exp Biol Med 1993, 204, 261	
		Mooney, et al," Long-term Engraftment of Hepatocytes Transplanted on Biodegradable Polymer Sponges," J. Biomed. Mater. Re., 37: 413-420 (1997) (incorporated by reference in entirety)	

Examiner	Date	
Signature	Considered	

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Gabattat	10 10 10 111 1445/1 10			Application Number	10/697,870
INFO	ORMATION	DIS	CLOSURE	Filing Date	October 31, 2003
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	REID, Lola M.
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(000000111)		Examiner Name	Not Yet Assigned		
Sheet	4	of	4	Attorney Docket Number	320727.51001

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		Mehri, et. al., "Cellular Reactions to Polyester Arterial Prostheses Impregnated with Cross-Linked Albumin: In Vivo studies in Mice," Biomat. 10(1): 56-58 (1989)	
		Gupta et al., "Bio-mechanics of human carotid artery and design of novel hybrid textile compliant vascular grafts," J. Biomed. Mat. Res. 34:341-349 (1997)	
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		Mickelson, J.K. et al. Hepatology 1995, 22, 866	
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		Hornicek, F.L. et al. Bone Miner 1988, 4, 157	

Examiner	-	•	 Date	
Signature			Considered	

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